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7. The system according to claim 1, wherein said cache server program is executed following successful end user validation by said PSD.

8. The system according to claim 1, where said memory is volatile memory.

5 9. A method for reducing PSD data throughput latency comprising;
functionally connecting a PSD including at least some data to a client, wherein
said client includes at least data storage means, data processing means,
cryptography means, and an I/O port,
executing a cache server program in said client,
10 allocating storage space in said data storage means for use in caching said at
least some data in a memory cache,
accessing said PSD through said I/O port by said cache server program,
transferring said at least some data from said PSD to said memory cache,
retaining access rights to said at least some data by said cache server
15 program,
receiving requests from at least one requesting program having access rights
to at least a portion of said transferred data;
verifying said access rights by said at least one requesting program; and
transferring at least a portion of said cached data to said at least one
20 requesting program.

10. The method according to claim 9 further including the steps of:
assigning exclusive rights to said I/O port and said memory cache to said
cache server program,
cryptographically protecting said data transferred from said PSD to said
25 memory cache,
removing said cryptographic protection from said data transferred to said at
least one requesting program.

11. The method according to claim 9 or 10 wherein said cache server program is executed following successful PIN validation by said PSD.

30 12. The method according to claim 10 wherein memory cache is flushed upon a status change.

13. The method according to claim 12 wherein said assigned exclusive rights to said I/O port and said memory cache are released upon said status change.

14. The method according to claim 12 or 13 wherein said status change includes logout of an end user, attempted login of a second end user, rebooting of said client or upon encountering an error situation.

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